RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: Source:	10/623, 808
Date Processed by STIC:	1FW0 02/08/2006

ENTERED

RAW SEQUENCE LISTING PATENT APPLICATION US/10/623,808

DATE: 02/08/2006 TIME: 13:06:17

INPUT SET: S30752.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

```
1
                                              SEQUENCE LISTING
        2
                   General Information:
        3
            (1)
        5
                 (i) APPLICANT: Alderson, Mark R.
                                 Goodwin, Raymond G.
        6
        7
                                 Smith, Craig A.
        8
                (ii) TITLE OF INVENTION: Cytokine Designated 4-1BB Ligand
        9
       10
               (iii) NUMBER OF SEQUENCES: 18
       11
       12
       13
                (iv) CORRESPONDENCE ADDRESS:
       14
                      (A) ADDRESSEE: Kathryn A. Anderson, Immunex Corporation
                      (B) STREET: 51 University Street
       15
       16
                      (C) CITY: Seattle
       17
                      (D) STATE: Washington
       18
                      (E) COUNTRY: US
                      (F) ZIP: 98101
       19
       20
                 (v) COMPUTER READABLE FORM:
       21
                      (A) MEDIUM TYPE: Floppy disk
       22
                      (B) COMPUTER: Apple Power Macintosh
       23
                      (C) OPERATING SYSTEM: Apple 7.5.3
       24
                      (D) SOFTWARE: Microsoft Word, Version #6.0.1
       25
       26
       27
                (vi) CURRENT APPLICATION DATA:
       28
                      (A) APPLICATION NUMBER: US/10/623,808
                      (B) FILING DATE: 22-JUL-2003
       29
       30
                      (C) CLASSIFICATION: 435
       31
       32
                 (vii) PRIOR APPLICATION DATA:
                      (A) APPLICATION NUMBER: US/08/236,918
       33
                      (B) FILING DATE: 06-May-1994
       34
                      (C) CLASSIFICATION: 435
       35
       36
                (vii) PRIOR APPLICATION DATA:
       37
                      (A) APPLICATION NUMBER: US 08/060,843
       38
                      (B) FILING DATE: 07-May-1993
       39
       40
                      (C) CLASSIFICATION: 435
-->
       41
       42
       43
              (viii) ATTORNEY/AGENT INFORMATION:
       44
                      (A) NAME: Anderson, Kathryn A.
                      (B) REGISTRATION NUMBER: 32,172
       45
                      (C) REFERENCE/DOCKET NUMBER: 2801-B
       46
```

RAW SEQUENCE LISTING PATENT APPLICATION US/10/623,808

DATE: 02/08/2006 TIME: 13:06:17

														41	 ULJ I	330732.1417
47 48 49 50 51		(ix)	(1	A) TI	ELEPH	ONE :	(20)6) 9	RMAT] 587-0 3-064	0430						
52 53	(2)	INFO	RMAT	rion	FOR	SEQ	ID 1	10:1	:							
54 55 56 57 58 59 60		(i)	(<i>I</i> (E	A) LI B) T? C) S?	CE CHENGTH PE: PRANI	H: 12 nucl	254) leic ESS:	ase acio sino	pai:	cs						
61 62		(ii)	MOI	LECUI	LE TY	PE:	CDN	A to	mRNA	A						
63 64	(iii)	НУІ	POTH	ETICA	AL: 1	10									
65 66 67	(iv) ANTI-SENSE: NO															
68 69 70	(vii)			ATE S			4-11	3B-L							
71 72 73 74 75		(ix)	(2		E: AME/I OCATI			. 979								
76 77		(xi)	SEC	QUENC	CE DI	ESCR	IPTI	ON: S	SEQ :	ID NO	0:1:					
78 79 80 81	AGCC'	TATA	AA!	3CAC(GGC?	AC TO	GGCG(GGAG!	A CG	rgca(CTGA	CCG	ACCG"	rgg :	rG et 1	· 55
82 83 84 85	GAC Asp															103
86 87 88 89	GCA Ala											-				151
90 91 92 93	CTC Leu															199
94 95 96 97	GCC Ala 50															247
98 99	CGC Arg															295

RAW SEQUENCE LISTING PATENT APPLICATION US/10/623,808

DATE: 02/08/2006 TIME: 13:06:17

														IN	PUT	SET:	S30752.raw
100					70					75					80		
101																	
102	AAG	CTC	TAT	GGC	CTA	GTC	GCT	TTG	GTT	TTG	CTG	CTT	CTG	ATC	GCC	GCC	343
103	Lys	Leu	Tyr	Gly	Leu	Val	Ala	Leu	Val	Leu	Leu	Leu	Leu	Ile	Ala	Ala	
104	_			85					90					95			
105																	
106	TGT	GTT	CCT	ATC	TTC	ACC	CGC	ACC	GAG	CCT	CGG	CCA	GCG	CTC	ACA	ATC	391
107	Cys	Val	Pro	Ile	Phe	Thr	Arg	Thr	Glu	Pro	Arg	Pro	Ala	Leu	Thr	Ile	
108			100					105					110				
109																	
110					AAC												439
111	Thr		Ser	Pro	Asn	Leu	Gly	Thr	Arg	Glu	Asn		Ala	Asp	Gln	Val	
112		115					120					125					
113																	
114					CAC												487
115		Pro	Val	Ser	His		GIY	Cys	Pro	Asn		Thr	GIn	GIn	GIY		
116	130					135					140					145	
117	aam	ama	mma	000	770	OIII N	аша	aam	7 7 7	770	C 3 3	CON	maa	TTTC	TIC C	א א ידי	E 2 E
118					AAG												535
119	Pro	vai	Pne	Ala	Lys	Leu	ьeu	Ala	гуѕ		GIII	Ala	ser	Leu	160	ASII	
120 121					150					155					100		
121	אכא	νсπ	СТС	אאכי	TGG	CAC	AGC	ממי	СУТ	CCA	ССТ	GGG	AGC	тса	ТΔС	СТД	583
123					Trp												303
123	1111	1111	пси	165	тър	1113	DCI	GIII	170	OLY	nia	OLY	DCI	175	- 7 -	шси	
125				103					1,0					2,75			
126	TCT	CAA	GGT	CTG	AGG	TAC	GAA	GAA	GAC	AAA	AAG	GAG	TTG	GTG	GTA	GAC	631
127					Arg												
128			180		3	- 4		185	_	•	1		190			•	
129																	
130	AGT	CCC	GGG	CTC	TAC	TAC	GTA	TTT	TTG	GAA	CTG	AAG	CTC	AGT	CCA	ACA	679
131	Ser	Pro	Gly	Leu	Tyr	Tyr	Val	Phe	Leu	Glu	Leu	Lys	Leu	Ser	Pro	Thr	
132		195					200					205					
133																	
134					GGC												727
135	Phe	Thr	Asn	Thr	Gly	His	Lys	Val	Gln	Gly	_	Val	Ser	Leu	Val		
136	210					215					220					225	
137																	
138					CAG												775
139	GIn	Ala	Lys		Gln		Asp									vaı	
140					230					235					240		
141	<i>a</i> , ,	ama	mma	aam.	maa.	maa	7 m/a	070	220	777	mm »	ama	C T C	COT	TICC	TCC	823
142					TGC												623
143 144	GIU	ьeu	Pne		Cys	ser	Mec	GIU	250	пуѕ	теи	vaı	Asp	255	SEI	пр	
144				245					250					255			
145	ልርጥ	ממי	СТС	ጥጥር	CTC	CTG	מממ	ССТ	GGC	CAC	רפר	כידיכי	АСТ	GTG	GGT	CTG	871
147					Leu												0,1
148	DCI	O 111	260	⊥ ←u	LCU	u	y .3	265	O _T y		9	u	270		1		
149																	
150	AGG	GCT	TAT	CTG	CAT	GGA	GCC	CAG	GAT	GCA	TAC	AGA	GAC	TGG	GAG	CTG	919
151					His												
152		275	-			•	280		-		-	285	-	_			

RAW SEQUENCE LISTING PATENT APPLICATION US/10/623,808

DATE: 02/08/2006 TIME: 13:06:17

IN	PIIT	SET	S307	52.rau

	INPUT SET: S30752.	raw
153		
154		967
155	Ser Tyr Pro Asn Thr Thr Ser Phe Gly Leu Phe Leu Val Lys Pro Asp	
156	290 295 300 305	
157 158	AND OUR THE UNIT TORONS CONTROL ACTOR ACTOR ACTOR COTTANCE TO	019
158	AAC CCA TGG GAA TGAGAACTAT CCTTCTTGTG ACTCCTAGTT GCTAAGTCCT 1 Asn Pro Trp Glu	019
160	ASII FIO IIP GIU	
161		
162	CAAGCTGCTA TGTTTTATGG GGTCTGAGCA GGGGTCCCTT CCATGACTTT CTCTTGTCTT 1	079
163		
164	TAACTGGACT TGGTATTTAT TCTGAGCATA GCTCAGACAA GACTTTATAT AATTCACTAG 1	139
165		
166	ATAGCATTAG TAAACTGCTG GGCAGCTGCT AGATAAAAA AAATTTCTAA ATCAAAGTTT 1	199
167		054
168	ATATTTATAT TAATATATAA AAATAAATGT GTTTGTAAAT AAAAAAAA	254
169 170		
171	(2) INFORMATION FOR SEQ ID NO:2:	
172	(2) INFORMATION FOR DEG ID NO.2.	
173	(i) SEQUENCE CHARACTERISTICS:	
174	(A) LENGTH: 309 amino acids	
175	(B) TYPE: amino acid	
176	(D) TOPOLOGY: linear	
177		
178	(ii) MOLECULE TYPE: protein	
179	(') GROVENGE DEGERERATION GEO. TO NO. O	
180	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:	
181 182	Met Asp Gln His Thr Leu Asp Val Glu Asp Thr Ala Asp Ala Arg His	
183	1 5 10 15	
184		
185	Pro Ala Gly Thr Ser Cys Pro Ser Asp Ala Ala Leu Leu Arg Asp Thr	
186	20 25 30	
187		
188	Gly Leu Leu Ala Asp Ala Ala Leu Leu Ser Asp Thr Val Arg Pro Thr	
189	35 40 45	
190	New Ale Ale Year Due Mer Are Ale Ale Mere Due Ale Wel Are Wel Are	
191 192	Asn Ala Ala Leu Pro Thr Asp Ala Ala Tyr Pro Ala Val Asn Val Arg 50 55 60	
193	30 33 00	
194	Asp Arg Glu Ala Ala Trp Pro Pro Ala Leu Asn Phe Cys Ser Arg His	
195	65 70 75 80	
196		
197	Pro Lys Leu Tyr Gly Leu Val Ala Leu Val Leu Leu Leu Ile Ala	
198	85 90 95	
199		
200	Ala Cys Val Pro Ile Phe Thr Arg Thr Glu Pro Arg Pro Ala Leu Thr	
201	100 105 110	
202	The Why The Cor Dre Age Lou Clar Why Ave Clar Age Age Ale Age Clar	
203 204	Ile Thr Thr Ser Pro Asn Leu Gly Thr Arg Glu Asn Asn Ala Asp Gln 115 120 125	
204	115 120 125	
203		

RAW SEQUENCE LISTING PATENT APPLICATION US/10/623,808

DATE: 02/08/2006 TIME: 13:06:18

														IN	PUT	SET: S
206 207 208	Val	Thr 130	Pro	Val	Ser	His	Ile 135	Gly	Cys	Pro	Asn	Thr 140	Thr			Gly
209 210 211	Ser 145	Pro	Val	Phe	Ala	Lys 150	Leu	Leu	Ala	Lys	Asn 155	Gln	Ala	Ser	Leu	Cys 160
212 213 214	Asn	Thr	Thr	Leu	Asn 165	Trp	His	Ser	Gln	Asp 170	Gly	Ala	Gly	Ser	Ser 175	Tyr
215 216 217	Leu	Ser	Gln	Gly 180	Leu	Arg	Tyr	Glu	Glu 185	Asp	Lys	Lys	Glu	Leu 190	Val	Val
218 219 220	Asp	Ser	Pro 195	Gly	Leu	Tyr	Tyr	Val 200	Phe	Leu	Glu	Leu	Lys 205	Leu	Ser	Pro
221 222 223	Thr	Phe 210	Thr	Asn	Thr	Gly	His 215	Lys	Val	Gln	Gly	Trp 220	Val	Ser	Leu	Val
224 225 226	Leu 225	Gln	Ala	Lys	Pro	Gln 230	Val	Asp	Asp	Phe	Asp 235	Asn	Leu	Ala	Leu	Thr 240
227 228 229	Val	Glu	Leu	Phe	Pro 245	Cys	Ser	Met	Glu	Asn 250	Lys	Leu	Val	Asp	Arg 255	Ser
230 231 232	Trp	Ser	Gln	Leu 260	Leu	Leu	Leu	Lys	Ala 265	Gly	His	Arg	Leu	Ser 270	Val	Gly
233 234 235	Leu	Arg	Ala 275	Tyr	Leu	His	Gly	Ala 280	Gln	Asp	Ala	Tyr	Arg 285	Asp	Trp	Glu
236 237 238	Leu	Ser 290	Tyr	Pro	Asn	Thr	Thr 295	Ser	Phe	Gly	Leu	Phe 300	Leu	Val	Lys	Pro
239 240 241	Asp 305	Asn	Pro	Trp	Glu											
242	(2)	INF	ORMA!	rion	FOR	SEQ	ID 1	NO:3	:							
243 244 245		(i)	()	A) L	ENGT	HARAG	518 J	oase	pair	rs						
246 247						nuci										
248	(C) STRANDEDNESS: single (D) TOPOLOGY: linear															
249 250 251		(ii)) MO	LECU	LE T	YPE:	cDN	A to	mRN	A						
252		(iii)	HY	POTH	ETIC	AL: 1	.1O									
253 254 255 256		(iv)) AN'	ri-s	ENSE	: NO										
257 258		(vii)				SOUR(: hu		4 - 1BI	3-L(7A)						

SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/10/623,808

DATE: 02/08/2006 TIME: 13:06:18

Line	Error	Original Text
30	Wrong Classification	(C) CLASSIFICATION:435
35	Wrong Classification	(C) CLASSIFICATION:435
40	Wrong Classification	(C) CLASSIFICATION:435

SEQUENCE MISSING ITEM REPORT PATENT APPLICATION US/10/623,808

DATE: 02/08/2006 TIME: 13:06:18

INPUT SET: S30752.raw

<< THERE ARE NO ITEMS MISSING >>

SEQUENCE CORRECTION REPORT PATENT APPLICATION US/10/623,808

DATE: 02/08/2006 TIME: 13:06:18

INPUT SET: S30752.raw

Line

Original Text

Corrected Text

SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/10/623,808

DATE: 02/08/2006 TIME: 13:06:18

Line	EITOF	Original Text
30	Wrong Classification	(C) CLASSIFICATION:435
35	Wrong Classification	(C) CLASSIFICATION:435
40	Wrong Classification	(C) CLASSIFICATION:435

SEQUENCE MISSING ITEM REPORT PATENT APPLICATION US/10/623,808

DATE: 02/08/2006 TIME: 13:06:18

INPUT SET: S30752.raw

<< THERE ARE NO ITEMS MISSING >>

SEQUENCE CORRECTION REPORT PATENT APPLICATION US/10/623,808

DATE: 02/08/2006 TIME: 13:06:18

INPUT SET: S30752.raw

Line

Original Text

Corrected Text